

GenCore version 5.1.4.p5_4578
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OM protein - protein search, using sw model

Run on: April 26, 2003, 12:57:35 : Search time 19 Seconds

(without alignments)
1269.963 Million cell updates/sec

Title: US-10-027-000-2

Perfect score: 4391

Sequence: 1 MADIVEALIKKFLAEKVD.....DGVALLRKFYGETGYMNSGV 833

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 262574 seqs, 29422922 residues

Total number of hits satisfying chosen parameters: 262574

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Listing first 45 summaries

Database :

1: Issued Patents_AA:*
2: /cgn2_6/pdata/1/1aa/5A.COMB.pep:*
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27: /cgn2_6/pdata/1/1aa/6X.COMB.pep:*
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44: /cgn2_6/pdata/1/1aa/6O.COMB.pep:*
45: /cgn2_6/pdata/1/1aa/6P.COMB.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	969	22.1	769	3	US-09-320-878-12
2	953	21.7	721	4	US-09-134-078-19
3	951.5	21.7	3782	4	US-09-105-537-4
4	944.5	21.5	809	4	US-09-105-537-24
5	860	19.6	735	4	US-09-147-236-7
6	731.5	16.7	744	2	US-08-462-080B-2
7	731.5	16.7	744	3	US-08-462-090-2
8	731.5	16.7	744	3	US-08-463-461-2
9	433.5	9.9	804	4	US-08-981-446B-3
10	132.5	3.0	328	1	US-08-386-727-6
11	132.5	3.0	328	2	US-08-600-452A-6
12	128.5	2.9	2032	4	US-09-071-035-458
13	128.5	2.9	2032	4	US-09-071-035-462
14	128.5	2.9	2032	4	US-09-071-035-466
15	122.5	2.8	737	4	US-09-071-035-460
16	121.5	2.8	2647	2	US-08-583-562B-8
17	121.5	2.8	2647	2	US-08-779-113-8
18	121	2.8	2353	4	US-09-377-155-33
19	121	2.8	2353	4	US-08-913-942-4
20	121	2.8	2353	4	US-09-669-974-33
21	121	2.8	2411	4	US-09-268-347-36
22	118.5	2.7	599	1	US-08-172-331B-4
23	118.5	2.7	599	2	US-09-032-315-6
24	118.5	2.7	599	2	US-08-993-318A-6
25	118.5	2.7	599	4	US-09-399-886-6
26	118.5	2.7	599	4	US-09-396-260-6
27	118.5	2.7	599	4	US-09-576-281-6

28	115	2.6	1938	4	US-09-514-302-2	Sequence 2, Appl1
29	113.5	2.6	833	4	US-09-514-302-3	Sequence 3, Appl1
30	113.5	2.6	2354	4	US-09-268-347-47	Sequence 47, Appl1
31	111.5	2.5	1394	4	US-08-296-791-2	Sequence 2, Appl1
32	111.5	2.5	1394	5	PCT-US95-10661A-2	Sequence 2, Appl1
33	109.5	2.5	540	1	US-08-367-227-2	Sequence 2, Appl1
34	108.5	2.5	1912	1	US-08-409-995-4	Sequence 4, Appl1
35	108.5	2.5	1912	3	US-08-685-467-4	Sequence 4, Appl1
36	107.5	2.4	521	4	US-08-952-365-4	Sequence 4, Appl1
37	107	2.4	928	4	US-09-514-599-4	Sequence 4, Appl1
38	106.5	2.4	1751	4	US-08-136-574A-44	Sequence 44, Appl1
39	104.5	2.4	943	4	US-09-397-885-5	Sequence 5, Appl1
40	104.5	2.4	1037	4	US-09-134-001C-4794	Sequence 4794, Ap
41	103.5	2.4	540	4	US-08-952-365-6	Sequence 6, Appl1
42	103	2.3	928	1	US-08-474-140-11	Sequence 11, Appl1
43	103	2.3	928	1	US-08-477-630-11	Sequence 11, Appl1
44	103	2.3	928	1	US-08-472-293-11	Sequence 11, Appl1
45	103	2.3	928	1	US-08-474-545-11	Sequence 11, Appl1

ALIGNMENTS

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RESULT 1
US-09-320-878-12
: Sequence 12, Application US/09320878A
: Patent No. 6117659
: GENERAL INFORMATION:
: APPLICANT: ASHLEY, Gary
: APPLICANT: BETHACH, Melanie C.
: APPLICANT: BETLACH, Mary C.
: APPLICANT: MCDANIEL, Robert
: APPLICANT: TANG, Li
: TITLE OF INVENTION: RECOMBINANT NARONOLIDE POLYKETIDE SYNTHASE
: FILE REFERENCE: 300622002120
: CURRENT FILING DATE: 1999-05-27
: EARLIER APPLICATION NUMBER: US/09/320, 878A
: EARLIER FILING DATE: 1997-04-30
: EARLIER APPLICATION NUMBER: 60/119, 139
: EARLIER FILING DATE: 1999-02-08
: EARLIER APPLICATION NUMBER: CIP OF 09/073, 538
: EARLIER FILING DATE: 1998-05-06
: EARLIER APPLICATION NUMBER: CIP OF 08/846, 247
: EARLIER FILING DATE: 1997-04-30
: EARLIER APPLICATION NUMBER: 60/119, 139
: EARLIER FILING DATE: 1999-02-08
: EARLIER APPLICATION NUMBER: 60/100, 880
: EARLIER FILING DATE: 1998-09-22
: EARLIER APPLICATION NUMBER: 60/087, 080
: NUMBER OF SEQ ID NOS: 34
: SOFTWARE: Patent In Ver. 2.0
: SEQ ID NO 12
: LENGTH: 769
: TYPE: PRT
: ORGANISM: Streptomyces venezuelae
: US-09-320-878-12

Query Match      22.1%, Score 969; DB 3; Length 769;
Best Local Similarity 32.6%; Pred. No. 1.4e-86;
Matches 277; Conservative 112; Mismatches 340; Indels 120; Gaps 25;

13 LTLAEKVDLLAGIDFW-----HTKALPKHGVSILRTDNGNGVKGTFENGVPAA 62
1 MLTDEKISFV-----HWALDDPDQRNGVYGVPRGLPEIRADGNGIR---LWGGTAT 52

63 CFPQGSIGSTNOLLEBAGKMGKREAIKSAHILPPTINMOSPGGSGFESIGDP 122
53 ALPAPVALASTDDVTWADSYGVKGRDGRALNQDVLGPMNNITVPYGRNTEFSDDP 112

123 FLAGLGAALINGISTGVQATIKHPLCNDQEDRBMVQOSTYTERALREIYALPQIAVR 182
113 LVSSRAVAQINGIGAGLMTAKHFAANNQENNFVANVDEQTLIEFPARE-ASS 171
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[illegible]


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Db 401 VDRKVTGLGSAHVPDSPAAPLDTTKAR-----AGAGATVTEETEETFGIOIPAGN 452
OY 401 RMEVNEPPTGNRHOHIDELFTFKDMLVDYHHPKAADYVADMEGTYYTDEQCTYLG 460
Db 453 LSPAFNQG-----HGLE--PGKKAGLY--DGLIYLPADGEYRIA 487
OY 461 LVVCGTAKAYVDQLVVDNATKQVGDAPFGSATREETGRINLVKNTYKKEIEGSAPT 520
Db 488 VRATG---GYATVQV---GSHITDAGQYGVKS---SPLKLTFG--THKL----- 527
OY 521 YTLKGDITVPHGSLRVGCKVYIDQAEITEKSVALAKEDDYIICAGLNAMETEGADRA 580
Db 528 -TISGFAMGATPLSLELGAVNTVTAADATITAKAVESAKARARAVFA---YDDTEGADRP 583
OY 581 SKMLPGLVLDQILADVAANPNTVVVMOGTPEEMFWLDPATPAVIOAWYGNENSTADY 640
Db 584 NLSLPGTQDKLISAVADANPNTIIVLNTGSSVLMPLSKTRAVLDWYPPQAGAEATAAL 643
OY 641 VEGDVNPSGKLSLSPFKRLQDNPAPLNFRTAG-----RTLYGEDVYVGRYER 690
Db 644 LYGDVNPBGKLTQSF-----PAEMDHAVAAGDPTSPGVNDQOQTYREGIHGCVRFMDK 696
OY 691 ADKDVNPFPGHGLSYTTFEAFSNLSVSH-KDGKLSVLSVKNTGSSVPAQVAYOLYVKPLQA 749
Db 697 ENWKPLFFPGHGLSYTTFEAFSNLSVSH-KDGKLSVLSVKNTGSSVPAQVAYOLYVKPLQA 756
OY 750 ANINPVEIKGFAKVELQPGETKAVITEDEKTYAAVFDDEERDQMCVEKGEVIVYSDS 809
Db 751 VTAPOAKKLLVGYTVSLAAGEAKTVTVN-----DRQLQETGS 795
OY 810 SAKKDVALRGKFTV 824
Db 796 SSAD---LRGSATV 806

RESULT 5
US-09-147-236-7
; Sequence 7, Application US/09147236A
; Patent No. 6316251
; GENERAL INFORMATION:
; APPLICANT: TONOUCHI, Naoto
; APPLICANT: TSUCHIDA, Takayasu
; APPLICANT: YOSHINAGA, Fumihito
; APPLICANT: TAHARA, Naoki
; APPLICANT: HAYASHI, Takahisa
; TITLE OF INVENTION: NOVEL GENE, GROUP OF GENES, AND NOVEL BETA-GLUCOSIDASE
; FILE REFERENCE: 6537-011-0PCT
; CURRENT APPLICATION NUMBER: US/09/147,236A
; EARLIER FILING DATE: 1999-04-08
; EARLIER APPLICATION NUMBER: PCT/JP97/03633
; NUMBER OF SEQ ID NOS: 12
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 7
; LENGTH: 735
; TYPE: PRT
; ORGANISM: Acetobacter xylinum
; FEATURE:
; OTHER INFORMATION: n at positions 15741 and 15767 may be a, g, t, or
; OTHER INFORMATION: c
US-09-147-236-7

Query Match 19.6%; Score 860; DB 4; Length 735;
Best Local Similarity 28.3%; Pred. No. 7.9e-76;
Matches 241; Conservative 125; Mismatches 277; Indels 210; Gaps 22;

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Db 37 ADARAROVLAWSLMDKMSLFSVDGPGNVAPPGGLGSAAYLRARPOGSLPLQISD 96

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OY 104 NMGRSLGGRGREGSICEDPFLAGLCAALIRCIQSTQVATIKFHLCDQDRRMVQSI 163
Db 156 DLTRDRGRGRNEFYEGEDPLQTRMVGSTIAGVQSQHVISTLKHYAMNDLETSHTMSAD 215
OY 164 VTERALREIYALPFOIAVDSQGAFTAYNGINVCSSCKPLDGLKREKMDLIM 223
Db 216 IDPVAMRESDDLGFELALETHPGAVKSYNRVNDLYACEPRLYTLTKQDMHYPGFVM 275
OY 224 SMYGTITTEAVAGLDLEMPG---PRFGETLKFNYSNGK-PFIHVIDQAREVL 277
Db 276 SDMGATHSSARAALAGLDQESAGDHTDARPYFR-TLLAADVKAGRVPEARINDMAER--- 331
OY 278 QFVKCAASGVTE---GPEYVNNPETALLRKGNBGIYLLKMNVLPLSKKKT 333
Db 332 -VVRALFAAGLVDRHQAGPLDVTDT---LVAKQDEBGAVALRNQGNILPLSPART 386
OY 334 LTVGNKQATYHGGGSAALRAYAVTPEFGLSKOLETPESTTVGAYTTVPILBQCLT 393
Db 387 AVIGGHADAGVLSGGG-----SQVDPIGGE---- 412
OY 394 PDCAGMGRVRFNPEPGRPNRHOHIDELFTFKDMLVDYHHPKAADYVADMEGTYYTAD 453
Db 413 ----- 412
OY 454 DCTYELGLVCGTAKAYVDQLVVDNATKQVGDAPFGSATREETGRINLVKNTYKFKFI 513
Db 413 -----AVKGPCK-----KEPPQDPVY----- 428
OY 514 EFGSAPYTLKGDITVPHGSLRVGCKVYIDQAEITEKSVALAKEDDYIICAGLNADWE 573
Db 429 -FPSSPLKMQAE--APG--ARI---TYDPGTSIASAVRARADVVVYA---TQET 475
OY 574 TEGADRASMKLPGLVLDQILADVAANPNTVVVMOGTPEEMFWLDPATPAVIOAWYGNEN 633
Db 476 FEGMDAPSMHLDNADALITAVAAANPNTVYMETGDPVLMPNSSVAVLEAMFPGSG 535
OY 634 GNSIADVYFGDYNPSGKLSLSPFKR-----LDNPAFLNFRTAGTLYGEDV 681
Db 536 GPALIRLFFGKVAAPSGHLMTFPOAESQLAHPDIAGVADNVPEMQFHTDQ-ELVYDESS 594
OY 682 YVGYRYEFADKDVNPFPGHGLSYTTFEAFSNLSVSHKDKLSVSVKNTGSSVPAQVAYO 741
Db 595 DVGTRMFDNRHFKLVPFGIGLTYTTFSTGDLKVTERRHGOVATFENVHNTGTRAGDVPO 654
OY 742 LVVCPLOAKINRVEKLGFAKVELQPGETKAVITEDEKTYAAVFDDEERDQMCVEKGD 801
Db 655 VYV-----GLPDGARGRLAGMQRISLAPGESRQVSV-QLEPRLAHFQDKHDMRVSPGT 708
OY 802 XEYIVSDSSAKD 814
Db 709 FRVWL--ASCATD 719

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RESULT 6
US-08-462-0808-2
; Sequence 2, Application US/08462080B
; Patent No. 5997913
; GENERAL INFORMATION:
; APPLICANT: Fowler, Timothy
; APPLICANT: Barnett, Christopher C.
; APPLICANT: Shoemaker, Sharon
; TITLE OF INVENTION: Saccharification of Cellulose by Cloning and
; TITLE OF INVENTION: Amplification of the Beta-glucosidase Gene of Trichoderma R
; NUMBER OF SEQUENCES: 4
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Genencor International, Inc.
; STREET: 925 Page Mill Road
; CITY: Palo Alto

```

STATE: Ca
COUNTRY: U.S.A.
ZIP: 94304
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/462,0808
FILING DATE: 05-JUN-1995
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/248,586
FILING DATE: 24-MAY-1994
CLASSIFICATION:
APPLICATION NUMBER: 07/807,028
FILING DATE: 10-DEC-1991
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/625,140
FILING DATE: 10-DEC-1990
CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: Stone, Christopher L.
REGISTRATION NUMBER: 35,696
REFERENCE/DOCKET NUMBER: GC78D3
TELECOMMUNICATION INFORMATION:
TELEPHONE: 650-846-7555
TELEFAX: 650-845-6504
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 744 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-462-080B-2

Query Match 16.7%; Score 731.5; DB 2; Length 744;
Best Local Similarity 27.5%; Pred. No. 4,4e-63;
Matches 234; Conservative 123; Mismatches 282; Indels 211; Gaps 31;

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QY 56 FNGVPACFPCTSLGFTNQTLLIEAGKMGKEALAKSAHVILGPTIN-MORSPPLGGRG 114
DB 107 TPEVQA-----STMDVNLIRRGQFIGEYKASGIHVLGVPAPLCKTPGCGRN 157
QY 115 FESIGEDPFLAGAAALRGIOSTGVQATIKHFLCNDQEDRRMAYQSVTERALREIYA 174
DB 158 WEFEGVDYPLTGTGMOQTINGIOSVQVATAKHVILNDELEINFTISSNPDRTTLELT 217
QY 175 LRPQIVRPSQPGAFMAYVNGINGVSCSEPKYLDGMLKREMGQDILMSDWGTYSTTE 234
DB 218 WPRADAVQ-ANVAVMCSINKVNTTWACEQYTLQTLVDQJGFPGYVWTMDMAQDHTVQ 276
QY 235 AVVAGIDLEMPGP-----REFGETLKFNV-SNGKEPFIHVIDQRAREVLOFVKCAASV 288
DB 277 SANSGLDMSPGTDFNGNNRLMGPALTNVNSQVPTSRVDDM---VRIILAAWLTQ 332
QY 289 TENG-PETVYNNTP--TAAALRKVQNEGIVLKKNNVLPISKKKTLIVGNPAKOAY 345
DB 333 DOAGYSEFNISRVNGNHTKTNRVRAIKARDGIVLKKNDANTLPLKKPSIAVV----- 383
QY 346 HGGGSALRAYVAVTPEDLSKQLEPRPSYVGATYTPVPIIGEO-CLRPDGA PGKRWY 404
DB 384 ---GSAAI-----ISNHRNPSQCDKCC--DDGALGHW-- 413
QY 405 FNPBPGRNROHIDELFTKTDMLVYVYHPRKADTWYADMEGTYYADBDCTYELGLVVC 464

DB 414 ---GSGAVNPPY-----FVAPYDAINTRASSQGT----- 439
QY 465 GTAKAYVDQLVONATKQVPGDAFFGSAFTREENGRLNVLVNGNKKRIERGSAPTYTLK 524
DB 440 -----QVTLSTWDNTSSG---ASAANGKQVAIVFTIADS----- 470
QY 525 GDTIYPGHSRVLGCGCKVIDDOAEIEKSVLAKEDHDTICAGINADWETGAPARASKL 584
DB 471 -----GEGYITVES--NAGDRNNLD-----PWHNNA----- 495
QY 565 PGLVDQLIADVAANPNTVVMQGTGTP---EDMPLDAPVAVIOAWGNGTGSIDAVY 641
DB 496 -----LVQAVAGANSNVIYVHVSAGAILLEOIIALLPVKAVVWAGJPSQSGNALVDVL 549
QY 642 FGDPNPSGKLSLSPFKRLQDNPAPLNFPR-TEAGRTLVGEDVYGVRYREFADKQVNPFG 700
DB 550 WGDVSPSGKLYYTLAK-----SPNDYNTNIVSGSDSPSEGLIDYKHKDNCANITPRFEF 605
QY 701 HGLSYTTFAPSNLSY--SHKDGK-----LSVLSYKNTGSGVGAQVAV 741
DB 606 YGLSTYKFNYSRLSVLSTAKSGPATGAVVPGPSDLPQNVATVIVDIANSQVYGAELVQ 665
QY 742 LYVK-PLQAKINRPVKELGPAKAYELOPGETKAVTIEQEKYVAAVFERDQCYEKG 800
DB 666 LYTYPPSSAPR--TTPKQLRGFAKLINLPQSGGATFNIRRRDL-SYWDTPSQWVVP 722
QY 801 DYEIVSDSS 810
DB 723 SFGISVASS 732

RESULT 7
US-08-462-090-2
Sequence 2, Application US/08462090
Patent No. 6022725
GENERAL INFORMATION:
APPLICANT: Fowler, Timothy
APPLICANT: Barnett, Christopher C.
APPLICANT: Shoemaker, Sharon
TITLE OF INVENTION: Saccharification of Cellulose by Cloning
TITLE OF INVENTION: Acid Amplification of the Beta-glucosidase Gene of
NUMBER OF SEQUENCES: 4
CORRESPONDENCE ADDRESS:
ADDRESS: Burns, Doane, Swecker & Mathis
STREET: George Mason Building, 699 Prince St.
CITY: Alexandria
STATE: Virginia
COUNTRY: U.S.A.
ZIP: 22313-1404
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/462,090
FILING DATE: 05-JUN-1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/625,140
FILING DATE: 10-DEC-1990
ATTORNEY/AGENT INFORMATION:
NAME: Dillahunt, T. Gene
REGISTRATION NUMBER: 25,423
REFERENCE/DOCKET NUMBER: 010055-056
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415-854-7400
TELEFAX: 415-854-8275
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 744 amino acids
TYPE: amino acid

TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-462-090-2

Query Match 16.7%; Score 731.5; DB 3; Length 744;
Best Local Similarity 27.5%; Pred. No. 4.4e-63;
Matches 234; Conservative 123; Mismatches 282; Indels 211; Gaps 31;

7 EAILKLTIAEKVLLAGIDFW-----HTKALPKHGVSLRFTDGPNGVR---GTRF 55
48 KALALAKLNLDKVGIVSGV-WNGPCVGNTPSPAKISYSLCLDDPLGVRYSTGSTAF 106
56 FNGVPACPCPGTSLGSTNQLLEBAGKMKGAIAKSAHVILPTIN-MORSPGLGRG 114
107 TPGVQA-----STWDVNLIRERGFIEGVKASGIVHILGPVAGPLEKTPGGRN 157
115 FESIGDEPLAGLGAALIRGIOSGVQATIKHFLCNDQEDRRMVOSIVTERALREIYA 174
158 WEGFVDPYLITGIMQITINGISGVQATAKHYILNEBELNRETISSNPDRTIHELTY 217
175 LPFOIAVRDSQPAFMTAYNGINGVSCSENPXYLDGMLRKEMGMDGLIMSDWYGTSTTE 234
218 WPFADAVQ-ANVAVSMCYKNVNTWACEDQYTLQTLKDLQGFPGYVTDMAQHTTYQ 276
235 AVVAGLDEMGP-----RFRGETLKENY-SNGKPFIVIDQAREVLOFVKCAASGV 288
277 SANSGLDSMPGTDFNGNRLMGPALTVAVNSNOVPTSRVDM---VTRILAAWYLTGQ 332
289 TENG-PETVNNTPPE-TAALLRKVNEGIVLLKNNNNVLPSSKKKTLIVGNPAKOATY 345
333 DOAGYSPFNISRNVGNHNTNRAIARDQIVLLKNDANILPLKKPASIAVY----- 383
346 HGGGSAALRAVYAVTPEDLSKOLETPPSYTGAYTVPILGEO-CLTPDGAPEMRVY 404
384 ---GSAAI-----IGNHARNSPSCNDKGC--DDGALGMG-- 413
405 FNEPPTPRKOHIDELFTKTDMLVDYHPRKAADTVADMGGTYTADECTYELGLVYC 464
414 ---GSAVAVPY-----FVAPYDAINTRASSGT----- 439
465 GTAKAVVDQDLVDNATKQVPGDAFFGSAFREETGRINLVKNTYKFKIEFSAPTYLK 524
440 ---QVTLSDNTDSSG---ASAARKDAIYVITIDS----- 470
525 GPTVPGHSLRVGCKVIDDOAEIEKSYALAKHEHDQVITICAGLNADMETEGADRASKL 584
471 ---GEGYITVEG--NAGDRNNLD-----PWHNGNA----- 495
585 PGVLQDLINDVAANNTYVWOTGPR---EEMPWLDATPVAIOAMYGNGENGTIADYV 641
496 ---LVAOVAGANSNVIVVHVSAGAILLEQILALPOVKAIVWAGLDSOESGNALVDL 549
642 FGDYNSGKLSLSPKRLDNPALNFR-TEAGRTLYGEDVYVGYRYEFAADKDVNPFEG 700
550 WEDVSPSGKLVYTIK---SPNDYNTRIVSGSDSFSGLFIDVKKHDDANITPRYREG 605
701 HGLISTYFAFSLV---SHKDG-----LSVLSVKNKTSVPGAQVAAQ 741
606 YGLSTYKFNYSRLYSTAKSGPATGAVVPGSPDLFQVNAVIVDIANSQGYTGAEVAQ 665
742 LVVK-PLQAKINRPYKELKFAKVELDQGETKATVIEOEKYVAAYDEEDQCYEKG 800
666 LVITYPSSAPR--TPPKOLRGFAKLNLTPGOSGATFNIIRRD- SYWDJASQKAVVPSG 722
801 DYEVISSDS 810
723 SFGISVGAAS 732

RESULT 8
US-08-463-461-2
Sequence 2, Application US/08463461
Patent No. 6103464

GENERAL INFORMATION:

APPLICANT: Fowley, Timothy
APPLICANT: Barnett, Christopher C.
APPLICANT: Shoemaker, Sharon
TITLE OF INVENTION: Saccharification of Cellulose by Cloning
TITLE OF INVENTION: and Amplification of the Beta-glucosidase Gene of
TITLE OF INVENTION: Tychoderma Reesii
NUMBER OF SEQUENCES: 4
CORRESPONDENCE ADDRESS:
ADDRESSEE: Genencor International, Inc.
STREET: 925 Page Mill Road
City: Palo Alto
STATE: California
COUNTRY: U.S.A.
ZIP: 94304-1013
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/463,461
FILING DATE: 05-JUN-1995
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Christopher L. Stone
REGISTRATION NUMBER: 35,696
REFERENCE/DOCKET NUMBER: GC78D4
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415-846-7555
TELEFAX: 415-845-6504
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 744 amino acids
TYPE: amino acid
TOPOLOGY: linear
US-08-463-461-2

Query Match 16.7%; Score 731.5; DB 3; Length 744;
Best Local Similarity 27.5%; Pred. No. 4.4e-63;
Matches 234; Conservative 123; Mismatches 282; Indels 211; Gaps 31;

7 EAILKLTIAEKVLLAGIDFW-----HTKALPKHGVSLRFTDGPNGVR---GTRF 55
48 KALALAKLNLDKVGIVSGV-WNGPCVGNTPSPAKISYSLCLDDPLGVRYSTGSTAF 106
56 FNGVPACPCPGTSLGSTNQLLEBAGKMKGAIAKSAHVILPTIN-MORSPGLGRG 114
107 TPGVQA-----STWDVNLIRERGFIEGVKASGIVHILGPVAGTIGKTPGGRN 157
115 FESIGDEPLAGLGAALIRGIOSGVQATIKHFLCNDQEDRRMVOSIVTERALREIYA 174
158 WEGFVDPYLITGIMQITINGISGVQATAKHYILNEBELNRETISSNPDRTIHELTY 217
175 LPFOIAVRDSQPAFMTAYNGINGVSCSENPXYLDGMLRKEMGMDGLIMSDWYGTSTTE 234
218 WPFADAVQ-ANVAVSMCYKNVNTWACEDQYTLQTLKDLQGFPGYVTDMAQHTTYQ 276
235 AVVAGLDEMGP-----RFRGETLKENY-SNGKPFIVIDQAREVLOFVKCAASGV 288
277 SANSGLDSMPGTDFNGNRLMGPALTVAVNSNOVPTSRVDM---VTRILAAWYLTGQ 332
289 TENG-PETVNNTPPE-TAALLRKVNEGIVLLKNNNNVLPSSKKKTLIVGNPAKOATY 345
333 DOAGYSPFNISRNVGNHNTNRAIARDQIVLLKNDANILPLKKPASIAVY----- 383
346 HGGGSAALRAVYAVTPEDLSKOLETPPSYTGAYTVPILGEO-CLTPDGAPEMRVY 404
384 ---GSAAI-----IGNHARNSPSCNDKGC--DDGALGMG-- 413
405 FNEPPTPRKOHIDELFTKTDMLVDYHPRKAADTVADMGGTYTADECTYELGLVYC 464

Db 414 ---GSGAVNPP-----FVAPYDAINTRASSQGT-----439
 QY 465 GTAKAVYDQLVVDNATKQVPGDAFGSATREBTGRLINIKGNTYKFKIEGSAPTYTLK 524
 Db 440 -----QVTLSDNDNTSSG-----ASARKGDAIVAYFTADS-----470
 QY 525 GDTIVPGHSLRYGGCKVIDDOAEIKSVLAKEHDOVILICAGLNADWETEGADRASKML 584
 Db 471 -----GEGYIYVEG--MAGDRNNLD-----PMHNGNA-----495
 QY 585 PGVLDLIADVAANPTVVVMQGTGP--EEMPMIDATPAYIQAMGSENEGNSIADV 641
 Db 496 -----LVQAVAGANSVIVVHVSVCALILEQILALPOYKAVWMAALPSQESGNALVYL 549
 QY 642 FGYNPBGKSLSPFKRLQONPAFLNPR--TEAGRTLYGDEVYGYRYEFAADKVNFPFG 700
 Db 550 WGDVSPSGKLVYTTAK-----SPNDYNTRYVSGSDSFSEGLFDYKHFPDANITPREYRG 605
 QY 701 HGLSTTFEAFSNLSV--SHKDGK-----LSVLSVKNKGTSYVGAQVNO 741
 Db 606 YGLSTTKENYRLSLVSTAKSGPATGAVVPGSPDLFQNVAFVTVDIANSQVTVGAEVNO 665
 QY 742 LYVK--PIQAKINRPVELKGFAYELQPGETKAVTIEBQEKYVAAPFDERDQVCYEG 800
 Db 666 LYITPPSSAPR--TPPKQLRGFAKLNLTPGOSGTATNIRRLD--STWDTASQKMYPPSG 722
 QY 801 DYEIVSDS 810
 Db 723 SFGISVGA 732

RESULT 9

US-08-981-446B-3
 : Sequence 3, Application US/08981446B
 : Patent No. 6300112

GENERAL INFORMATION:

: APPLICANT: TITLE OF INVENTION: No. 6300112el beta-xylosidase, nucleotide sequence
 : TITLE OF INVENTION: encoding it, and use thereof
 : NUMBER OF SEQUENCES: 3
 : COMPUTER READABLE FORM:
 : MEDIUM TYPE: floppy disk
 : COMPUTER: IBM PC compatible
 : OPERATING SYSTEM: PC-DOS/MS-DOS
 : SOFTWARE: Patent Release #1.0, Version #1.25 (EPO)
 : CURRENT APPLICATION DATA:
 : APPLICATION NUMBER: US/08/981,446B

FILING DATE:

: INFORMATION FOR SEQ ID NO: 3:
 : SEQUENCE CHARACTERISTICS:
 : LENGTH: 804 amino acids
 : TYPE: amino acid
 : TOPOLOGY: linear

MOLECULE TYPE: protein

: HYPOTHETICAL: NO
 : ORIGINAL SOURCE:
 : ORGANISM: Aspergillus niger (CBS 120.49)
 : STRAIN: NM147

FEATURE:

: NAME/KEY: sig_peptide
 : LOCATION: 1..26
 : US-08-981-446B-3

Query Match

: 9.9%; Score 433.5; DB 4; Length 804;
 : Best Local Similarity 22.2%; Pred. No. 1.7e-33;
 : Matches 200; Conservative 131; Mismatches 276; Indels 293; Gaps 36;

QY 22 LAGIDFHTKALPKHGVPSLRFTDGPNGVGTFFNGVPAACPPCSTSLGSEFNQTLLEE 81
 Db 107 LPAYGVW--SEAL--HGIDRANFSD-----SGAYNW--ATSPQDILTTAALNRLIHQ 154
 QY 82 AGKMGKRAIA-----KSAHVILGPTINMQRSPILGGRGFSIGEDPFLAGLAALIRGI 136

Db 155 IASITOGRAFNNAGRYGLDYAPAPNINTEFRHPVNGSGOETPGEDVSLAAVAYEYITGI 214
 QY 137 Q-----STGVQATIKHFLCNDOED-----RRMAYSIYERALARIELALPCJIAVDSOP 186
 Db 215 QGDPDSNKLIAATAHYAGYIDENHNSRLGNDMNITQODLSERYTPQFIVARADKV 274
 QY 187 GAFPTAYNGINGVSCSENPFLYDGLMRKEMGW--DGLINSDWYGYI-----230
 Db 275 QSVWCATNAYNVPACADSYFLDTLRDTFGFVDHGYVSSDDAANINYPHGVASSQA 334
 QY 231 STTEAVVAGLDLEPPGPPRGETLKFENVSNGKPFIVHIDQAREVLOFYKCAAGYTE 290
 Db 335 AAAPAILLAGTIDIC-----GTYOMHINES--IAAGDLSRDEIGQVIRLYTTVOA 384
 QY 291 N--GPEFTVNTP-----ETAA--TLRKVNEGIVLLKENNNVPLSKKKTLIV 336
 Db 385 GYFDSNTTKANNPRDLISMSDVLEETDAMNISTYQAAGIYLLKNSNVLPLEK-----438
 QY 337 GPNKQATYHOGGSNALRAYAVATPEDGLSKOLETPPSYVGAITYVPPILBQCILTPDG 396
 Db 439 -----AY-----PPSNTTVA-----LIGP-----452
 QY 437 APGRKRVFNEPPTGPNRQHIDELFTKTDMLVDYVHPKADPTWYADMEGTYTADEDCT 456
 Db 453 -----WA-----ATRETEG--RINLYKN 507
 QY 457 YELGLVCGTAKAVYDQLVVDNATKQVPGDAFGS-----NATTOLEGN--YGNAPYMIISPRAAFEEGYVNFAGE 491
 Db 455 -----GISTSTP-----SGFAALSAASAVIYIAG 519
 QY 508 TYKFKIEFGSAPYTLKGDITVPGHSLRYGGCKVIDDOAEIKSVLAKEHDOVILICAG 567
 Db 492 -----GISTSTP-----SGFAALSAASAVIYIAG 519
 QY 568 LNADETEGADRASKMLPGVLDLIADVA--AANPTVVVMQGTPEEMPMIDAT-----620
 Db 520 IDNTELEALDRESIANGNOLDLQKLSAAGKKPLIVLQMGGO-----YDSSSLKNT 575
 QY 621 --PAVIQAMYGNETGNSIADVFGDYPGSKL--SLSP--KRLDNPAL--LNFTEAGRT 675
 Db 576 NVSALLMGVYRPOSGGFLRLDITTKKNPAGRLVTVQYPSAYAEFPATDMNLRPE-----631
 QY 676 LVGEDVYVGYRYEFAADKVNPPFGHSLYTFEAFSNLSVSHKDGKLSV-----724
 Db 632 --GDNPGQTYKMY--TEGAYVEFGHGLFTTFEAFSSNNTTKEVKLIDILSOTHEDL 686
 QY 725 -----SLSVKNKGTSYVGAQVNOIYKPLDQAKINRPVELKGFAY--ELDPGET 772
 Db 687 ASITQLPVLNFTANIRNTKLESDDYAMVFANTSDAGAPYPKMWLVGMDXRGYKGET 746
 QY 773 KAVTIEQEKYVAAYFDERDQVCYEGDYEVISDSSAAKDGVALRGKFTVGETYMWMSG 832
 Db 747 RELRVEVEGSEFARV--NEDGDVYVFPFGTFELALNLERVRYKVVLEBEEV--VLKMPG 802

RESULT 10

US-08-386-727-6
 : Sequence 6, Application US/08386727
 : Patent No. 5792647

GENERAL INFORMATION:

: APPLICANT: ROSEMAN, SAUL
 : APPLICANT: BASSELMER, BONNIE
 : APPLICANT: KEYHANT, NEMAT O.
 : APPLICANT: CHITLARU, EDITH
 : APPLICANT: ROWE, CHRIS

TITLE OF INVENTION: BACTERIAL CATABOLISM OF CHITIN

: NUMBER OF SEQUENCES: 8
 : CORRESPONDENCE ADDRESSES:
 : ADDRESSEE: CUSHMAN, DARBY & CUSHMAN
 : STREET: 1100 NEW YORK AVENUE, N.W.
 : CITY: WASHINGTON
 : STATE: D.C.

COUNTRY: USA
ZIP: 20005
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/386,727
FILING DATE:
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: HOBBS, ANN S.
REGISTRATION NUMBER: 36,830
REFERENCE/DOCKET NUMBER: 4130/206916
TELECOMMUNICATION INFORMATION:
TELEPHONE: 202-861-3000
TELEFAX: 202-822-0944
TELEX: 6714627 CUSH
INFORMATION FOR SEQ ID NO: 6:
SEQUENCE CHARACTERISTICS:
LENGTH: 328 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-386-727-6

Query Match 3.0%; Score 132.5; DB 1; Length 328;
Best Local Similarity 23.4%; Pred. No. 0.00022;
Matches 62; Conservative 37; Mismatches 103; Indels 63; Gaps 9;

QY 65 PCGSLGTFNOT-LLEAGKMGKEAIKSAHVILGPTIN--MQSPGAGGFESIGED 121
DB 78 PCAQLYARSDNGTQLAEDGWMALAHIDLSFAPYLDKGFDCRAIGNRAF---GDD 134
QY 122 PFLAGLAALINGIGSTGQATIKHF-----LCNDQEDRRMVOSIVTERALR 170
DB 135 VQVLYTSSAYMRGMSVGMATTKGHPGHGAVIADSHLETPEYDERDSIADMTIFRAOI 194
QY 171 EYALPQOIAVR-----DSQCAFMTAVNGINGVSCSENPXYLDGMKREKMGGLIMS 224
DB 195 EAGILDMMFAHYIYHYDAQP-----ASGSPYWLKQVLEIGFVGIVFS 240
QY 225 DWGTSTTEAVVAGLDLEMPGPPRGFTLKFVNSNGKPFTHVIDORAREVLQVKKCA 284
DB 241 D-----DLMEGAALINGGPAERAOQS-----LDACCDYLMGNKRRES 277
QY 285 ASGVTEGPEPTVNNPTETALIRK 309
DB 278 AVAVLDQLPISV--PQASLILKQ 299

RESULT 11

US-08-600-452A-6
Sequence 6, Application US/08600452A
Patent No. 5985644
GENERAL INFORMATION:
APPLICANT: ROSEMAN, SAUL
APPLICANT: BASSLER, BONNIE
APPLICANT: KEYHANI, NEMAT O.
APPLICANT: CHITLARI, EDITH
APPLICANT: ROME, CHRIS
APPLICANT: YU, CHARLES
TITLE OF INVENTION: BACTERIAL CATABOLISM OF CHITIN
NUMBER OF SEQUENCES: 8
CORRESPONDENCE ADDRESS:
ADDRESSEE: FISH & RICHARDSON P.C.
STREET: 4225 Executive Square, Suite 1400
CITY: La Jolla
STATE: CA
COUNTRY: USA
ZIP: 92037

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/600,452A
FILING DATE: 13-FEB-1996
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Haile, Lisa A.
REGISTRATION NUMBER: 38,347
REFERENCE/DOCKET NUMBER: 07662/005001
TELECOMMUNICATION INFORMATION:
TELEPHONE: (619) 678-5070
TELEFAX: (619) 678-5099
TELEX:
INFORMATION FOR SEQ ID NO: 6:
SEQUENCE CHARACTERISTICS:
LENGTH: 328 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-600-452A-6

Query Match 3.0%; Score 132.5; DB 2; Length 328;
Best Local Similarity 23.4%; Pred. No. 0.00022;
Matches 62; Conservative 37; Mismatches 103; Indels 63; Gaps 9;

QY 65 PCGSLGTFNOT-LLEAGKMGKEAIKSAHVILGPTIN--MQSPGAGGFESIGED 121
DB 78 PCAQLYARSDNGTQLAEDGWMALAHIDLSFAPYLDKGFDCRAIGNRAF---GDD 134
QY 122 PFLAGLAALINGIGSTGQATIKHF-----LCNDQEDRRMVOSIVTERALR 170
DB 135 VQVLYTSSAYMRGMSVGMATTKGHPGHGAVIADSHLETPEYDERDSIADMTIFRAOI 194
QY 171 EYALPQOIAVR-----DSQCAFMTAVNGINGVSCSENPXYLDGMKREKMGGLIMS 224
DB 195 EAGILDMMFAHYIYHYDAQP-----ASGSPYWLKQVLEIGFVGIVFS 240
QY 225 DWGTSTTEAVVAGLDLEMPGPPRGFTLKFVNSNGKPFTHVIDORAREVLQVKKCA 284
DB 241 D-----DLMEGAALINGGPAERAOQS-----LDACCDYLMGNKRRES 277
QY 285 ASGVTEGPEPTVNNPTETALIRK 309
DB 278 AVAVLDQLPISV--PQASLILKQ 299

RESULT 12

US-09-071-035-458
Sequence 458, Application US/09071035
Patent No. 6448043
GENERAL INFORMATION:
APPLICANT: Gil H. Choi
TITLE OF INVENTION: Enterococcus faecalis Polynucleotides and Polypeptides
NUMBER OF SEQUENCES: 496
CORRESPONDENCE ADDRESS:
ADDRESSEE: Human Genome Sciences, Inc.
STREET: 9410 Key West Avenue
CITY: Rockville
STATE: Maryland
COUNTRY: USA
ZIP: 20850
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.50 inch, 1.4mb storage
COMPUTER: HP Vectra 486/33
OPERATING SYSTEM: MSDOS version 6.2
SOFTWARE: ASCII Text
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/071,035

FILED DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: A. Anders Brookes
REGISTRATION NUMBER: 36,373
REFERENCE/DOCKET NUMBER: PB369P2
TELECOMMUNICATION INFORMATION:
TELEPHONE: (301) 309-8504
TELEFAX: (301) 309-8512
INFORMATION FOR SEQ. ID NO: 462:
SEQUENCE CHARACTERISTICS:
LENGTH: 2032 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
US-09-071-035-456

Query Match 2.9%; Score 128.5; DB 4; Length 2032;
Best Local Similarity 20.0%; Pred. No. 0.015;
Matches 126; Conservative 81; Mismatches 227; Indels 197; Gaps 31;

QY 227 YGTVS-----TTTAVVAG--LDLEMPGPPRRGELTKRVNSGK-PFIH 267
DB 295 YGTVTISEDGVTFRTNERITSESDIHGDSLDTHL-----NDSGRGPGDW 341
QY 268 VIDQRAREVLFQVKKCAASGVTEGPEPTVNNPTETALLRKVN-----EGIVLKN 320
DB 342 VIDPTEDEL-----PPVVIPIVDFEQIDKQGHDRTPNSAITWVD 386
QY 321 ENNVLPISKKKTLIVPNNAKQATYHGGSAALRAYAVTPEDGSKOLE--TPPSYTV 377
DB 387 INQAM---KDOT--NPVTETWPTGNTEPKSVKVELVNNLDGTIKEVGRELSPPDEYTV 439
QY 378 G-----AY-----TTPVPIIGBQCLTPDGAPEMRKRVF-----NEPPTGN 413
DB 440 DKNGNVTIKGDTNKAYRLEVOYTI---DEAVIPDGGGVDPKNNATLSDNPNGLDA 494
QY 414 ROHIDELFTKTMHLVDYHPRKADTWYADMEGTYADEDCYELGLVVCSTAKAYVD 473
DB 495 EAVTATATGKMLDKRINDYDEANOEFW-----EINYNNGEQTIPKDOAVITD 542
QY 474 QLVVNDATKQVPGDAFSGSATREETGR---INLVKGNTRYKFKIEGSAFTYTLKGDITV 529
DB 543 TM-GDNLTFE-PDSLHLVSYTFDDKNEVVGAEIYEGKDK-----VVI 584
QY 530 PGHGSILR-----VGCGKVIDDOAE---IEKSVALAKHDOYIICAGLNADMETEGADR 579
DB 585 NGDGSFAIDFLHDYTGAVKIDYKTKVDGIVEGVAV---NNRDVYGGQHSDEDDGTAISOQ 641
QY 580 ASMKLPGVLD---OLIDVAAANPNVTYV---MOTGPEEMPMWIDATPAVIQAMYGNET 633
DB 642 NIKKATGADVONSTIGTTLAVNONNMLMENAVITDTEPEVPGILMPV----- 689
QY 634 GNSIDVVEGDPNPSGKLSLSPKRLQDNPAFLNFEETAGRTLYGEDVYVYR-----Y 687
DB 690 -NSL---VVKDTTGAOLTLG-----KDFMEITNADGE---IGFKVSFIGAY 731
QY 688 YEFADKDVNFPFGHLSYTTFAFSNLSYSHKDGKLSLSVKNMGTSVPGAQVQOLYKPL 747
DB 732 AKTSD-----AFHITVYTF---FDVTELDANNPALDHRYNTAAIDWTDDEA---GNN 776
QY 748 QAAKINRPVKELGKFAKVELQDGEKATIE 778
DB 777 HHSEDSKPKPLPAFDLNAQSGVYNAVYKE 807

RESULT 13
US-09-071-035-462
; Sequence 462, Application US/09071035

Patent No. 6448043
GENERAL INFORMATION:
APPLICANT: Gil H. Choi
TITLE OF INVENTION: Enterococcus faecalis Polynucleotides and Polypeptides
NUMBER OF SEQUENCES: 496
CORRESPONDENCE ADDRESS:
ADDRESSEE: Human Genome Sciences, Inc.
STREET: 9410 Key West Avenue
CITY: Rockville
STATE: Maryland
COUNTRY: USA
ZIP: 20850
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.50 inch, 1.4mb storage
COMPUTER: HP Vectra 486/33
OPERATING SYSTEM: MSDOS version 6.2
SOFTWARE: ASCII Text
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/071,035
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: A. Anders Brookes
REGISTRATION NUMBER: 36,373
REFERENCE/DOCKET NUMBER: PB369P2
TELECOMMUNICATION INFORMATION:
TELEPHONE: (301) 309-8504
TELEFAX: (301) 309-8512
INFORMATION FOR SEQ. ID NO: 462:
SEQUENCE CHARACTERISTICS:
LENGTH: 2032 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
US-09-071-035-462

Query Match 2.9%; Score 128.5; DB 4; Length 2032;
Best Local Similarity 20.0%; Pred. No. 0.015;
Matches 126; Conservative 81; Mismatches 227; Indels 197; Gaps 31;

QY 227 YGTVS-----TTTAVVAG--LDLEMPGPPRRGELTKRVNSGK-PFIH 267
DB 295 YGTVTISEDGVTFRTNERITSESDIHGDSLDTHL-----NDSGRGPGDW 341
QY 268 VIDQRAREVLFQVKKCAASGVTEGPEPTVNNPTETALLRKVN-----EGIVLKN 320
DB 342 VIDPTEDEL-----PPVVIPIVDFEQIDKQGHDRTPNSAITWVD 386
QY 321 ENNVLPISKKKTLIVPNNAKQATYHGGSAALRAYAVTPEDGSKOLE--TPPSYTV 377
DB 387 INQAM---KDOT--NPVTETWPTGNTEPKSVKVELVNNLDGTIKEVGRELSPPDEYTV 439
QY 378 G-----AY-----TTPVPIIGBQCLTPDGAPEMRKRVF-----NEPPTGN 413
DB 440 DKNGNVTIKGDTNKAYRLEVOYTI---DEAVIPDGGGVDPKNNATLSDNPNGLDA 494
QY 414 ROHIDELFTKTMHLVDYHPRKADTWYADMEGTYADEDCYELGLVVCSTAKAYVD 473
DB 495 EAVTATATGKMLDKRINDYDEANOEFW-----EINYNNGEQTIPKDOAVITD 542
QY 474 QLVVNDATKQVPGDAFSGSATREETGR---INLVKGNTRYKFKIEGSAFTYTLKGDITV 529
DB 543 TM-GDNLTFE-PDSLHLVSYTFDDKNEVVGAEIYEGKDK-----VVI 584
QY 530 PGHGSILR-----VGCGKVIDDOAE---IEKSVALAKHDOYIICAGLNADMETEGADR 579
DB 585 NGDGSFAIDFLHDYTGAVKIDYKTKVDGIVEGVAV---NNRDVYGGQHSDEDDGTAISOQ 641
QY 580 ASMKLPGVLD---OLIDVAAANPNVTYV---MOTGPEEMPMWIDATPAVIQAMYGNET 633

Db 642 NIKMTGAVDYONSTIGWTLAVNQNMYLMENAVITDYTEPVPGLTMVP----- 689
 QY 634 GNSIADYVGDYVPSGKLSLSPFKRLQDNPAFLNFTAGRTLYGEDYVYGR-----Y 687
 Db 690 -NSL--YVKDITTTGAQLTLG-----KDFWEITRNADGE--TGFKVSFIGAY 731
 QY 688 YEPADKDVNEPFGHLSYTFPAFNSLSVSHKDGKLSVLSVKNKNGSVGCAQVADLYKPL 747
 Db 732 AKTSD-----AFHITTYTF--FDVTELDANNPALDHYRNTAIDWTDGA-----GNN 776
 QY 748 QAAKINRPVKELKGFAYELOPGETKAVTIE 778
 Db 777 HSEDSKPKPKLPAPDLNAOKSGVYNAVYKE 807

RESULT 14

US-09-071-035-466
 ; Sequence 466, Application US/09071035
 ; Patent No. 6448043
 ; GENERAL INFORMATION:
 ; APPLICANT: Gil H. Choi
 ; TITLE OF INVENTION: Enterococcus faecalis Polynucleotides and Polypeptides
 ; NUMBER OF SEQUENCES: 496
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESS: Human Genome Sciences, Inc.
 ; STREET: 9410 Key West Avenue
 ; CITY: Rockville
 ; STATE: Maryland
 ; COUNTRY: USA
 ; ZIP: 20850
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Diskette, 3.50 inch, 1.4mb storage
 ; COMPUTER: HP Vectra 486/33
 ; OPERATING SYSTEM: MSDOS version 6.2
 ; SOFTWARE: ASCII Text
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/09/071.035
 ; FILING DATE:
 ; CLASSIFICATION:
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER:
 ; FILING DATE:
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: A. Anders Brookes
 ; REGISTRATION NUMBER: 36,373
 ; REFERENCE/DOCKET NUMBER: PB369P2
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: (301) 309-8504
 ; TELEFAX: (301) 309-8512
 ; INFORMATION FOR SEQ ID NO: 466:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 2032 amino acids
 ; TYPE: amino acid
 ; STRANDEDNESS: single
 ; TOPOLOGY: linear
 ; MOLECULE TYPE: protein
 ; US-09-071-035-466

Query Match 2.9%; Score 128.5; DB 4; Length 2032;
 Best Local Similarity 20.0%; Pred. No. 0.015;
 Matches 126; Conservative 81; Mismatches 227; Indels 197; Gaps 31;

QY 227 YGTVS-----TTAAVAG--LDLEMPGPPRRRGELTKNNVSGK--PETH 267
 Db 295 YGTVS-----TTAAVAG--LDLEMPGPPRRRGELTKNNVSGK--PETH 267
 QY 268 VIDORAREVLOFVKCAASGVTEGPEYVNNPETAALLRKVGN-----EGYLLKN 320
 Db 342 VIDIPQEDL-----PPVYIPYVPEQIDKQGHDRPNPSAIIWYD 386
 QY 321 ENNVPLSKKKKTLIVGNPAKATYHGGSSAALRAYAVTPFDGLSKOLE--TPPSYTV 377

Db 387 INQAM-----KDQT---NPVTETWPTGNTEKSVKVELYVNLNDGTIKEVRELSPDDETV 439
 QY 378 G-----AY-----TTPPILGEOCLTPGAPOMRRRV-----NEPQTR 413
 Db 440 DKNGNVIKQDTNKAIVLEQITII-----DEAVIPGGGVDPKNNATLTSNNPGLDA 494
 QY 414 ROHIDELFTKTDMLVDYVHPRAADTWYADMGGTYTADECTYELGLVYCGTAKAYVD 473
 Db 495 EAVYATATYGMKLRINDYDEANQEFW-----EINYNGEGQIIPRDQAVIID 542
 QY 474 QLVYDNTKQVPGDAFFGSAITRETR-----INLVKNYTKKIEIEGSAPTYTLKQDTIV 529
 Db 543 TM-GDNLTFE-PSLHLVSVTFDDKGENEVGAEIVGSKDYK-----VVI 584
 QY 530 PGHGSRLR-----VGGKGVTDQAE-----IEKSVLAKHEIDYIICAGLNADMETEGAR 579
 Db 585 NGDGSFAIDFLHYTGAVKIDYTKYDGIYEGVAV--NNRDVGTGSHSEDDGTASQ 641
 QY 580 ASKRLPGVLD--QLIADVAANPNTVVV--MOTGPPEMPLDAPPAVIOAWYGNET 633
 Db 642 NIKMTGAVDYONSTIGWTLAVNQNMYLMENAVITDYTEPVPGLTMVP----- 689
 QY 634 GNSIADYVGDYVPSGKLSLSPFKRLQDNPAFLNFTAGRTLYGEDYVYGR-----Y 687
 Db 690 -NSL--YVKDITTTGAQLTLG-----KDFWEITRNADGE--TGFKVSFIGAY 731
 QY 688 YEPADKDVNEPFGHLSYTFPAFNSLSVSHKDGKLSVLSVKNKNGSVGCAQVADLYKPL 747
 Db 732 AKTSD-----AFHITTYTF--FDVTELDANNPALDHYRNTAIDWTDGA-----GNN 776
 QY 748 QAAKINRPVKELKGFAYELOPGETKAVTIE 778
 Db 777 HSEDSKPKPKLPAPDLNAOKSGVYNAVYKE 807

RESULT 15

US-09-071-035-460
 ; Sequence 460, Application US/09071035
 ; Patent No. 6448043
 ; GENERAL INFORMATION:
 ; APPLICANT: Gil H. Choi
 ; TITLE OF INVENTION: Enterococcus faecalis Polynucleotides and Polypeptides
 ; NUMBER OF SEQUENCES: 496
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESS: Human Genome Sciences, Inc.
 ; STREET: 9410 Key West Avenue
 ; CITY: Rockville
 ; STATE: Maryland
 ; COUNTRY: USA
 ; ZIP: 20850
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Diskette, 3.50 inch, 1.4mb storage
 ; COMPUTER: HP Vectra 486/33
 ; OPERATING SYSTEM: MSDOS version 6.2
 ; SOFTWARE: ASCII Text
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/09/071.035
 ; FILING DATE:
 ; CLASSIFICATION:
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER:
 ; FILING DATE:
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: A. Anders Brookes
 ; REGISTRATION NUMBER: 36,373
 ; REFERENCE/DOCKET NUMBER: PB369P2
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: (301) 309-8512
 ; TELEFAX: (301) 309-8504
 ; INFORMATION FOR SEQ ID NO: 460:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 737 amino acids
 ; TYPE: amino acid

